

WEST Search History

DATE: Wednesday, October 08, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L1	air near5 (conditioner or conditioning or purifier or purifying)	179377	L1
L2	L1 same (ionizer or ion near5 (generator or generating) or precipitator)	575	L2
L3	taylor-charles\$.in. or lau-shek\$.in.	286	L3
L4	l2 not L3	552	L4
L5	L4 and (light or lamp or UV or ultraviolet)	121	L5
L6	L5 and ((422/\$)!.CCLS.)	30	L6

END OF SEARCH HISTORY

WEST

Generate Collection

Print

Search Results - Record(s) 1 through 30 of 30 returned.

☐ 1. Document ID: US 20030072675 A1

L6: Entry 1 of 30

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030072675

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030072675 A1

TITLE: Sterilization method, ion generating device, ion generating device, and air conditioning device

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Takeda, Yasukata	Osaka-shi		JP	
Sekoguchi, Yoshinori	Osaka-shi		JP	
Furukawa, Takeshi	Osaka-shi		JP	
Morikawa, Mamoru	Osaka-shi		JP	
Noguchi, Katsutoshi	Osaka-shi		JP	
Nojima, Hideo	Osaka-shi		JP	
Nishikawa, Kazuo	Osaka-Shi		JP	
Miyata, Akio	Osaka-Shi		JP	

US-CL-CURRENT: 422/22; 422/186.04, 422/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 20030019355 A1

L6: Entry 2 of 30

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030019355

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030019355 A1

TITLE: Device and method for selectively removing gaseous pollutants from the ambient air

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Goebel, Johann	Muenchen		DE	
Oberpriller, Helmut	Kleinhohenrain		DE	
Peuser, Peter	Riemerling		DE	

US-CL-CURRENT: 95/57; 422/121, 96/16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 20020098130 A1

L6: Entry 3 of 30

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098130

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098130 A1

TITLE: Apparatus for purifying and deodorizing air

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hai Fong, William Wing	Kin		HK	

US-CL-CURRENT: 422/186.04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20010031225 A1

L6: Entry 4 of 30

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010031225

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010031225 A1

TITLE: Salt air freshener apparatus and method

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandish, Theodore O.	Mims	FL	US	

US-CL-CURRENT: 422/120; 264/129, 264/234, 422/123, 422/125

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 6607702 B1

L6: Entry 5 of 30

File: USPT

Aug 19, 2003

US-PAT-NO: 6607702

DOCUMENT-IDENTIFIER: US 6607702 B1

TITLE: Photocatalyst filter, method for fabricating the same and air cleaner thereof

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kang; Kwang Ok	Kyongsangnam-do			KR
Hong; Young Ki	Kyongsangnam-do			KR
Heo; Kyong Wook	Kyongsangnam-do			KR
Lee; Sung Hwa	Kyongsangnam-do			KR
Shin; Soo Yeon	Kyongsangnam-do			KR
Kang; Jung Hun	Kyongsangnam-do			KR
Choi; Yong Bok	Kyongsangnam-do			KR
Yoon; Ju Han	Kyongsangnam-do			KR

US-CL-CURRENT: 422/186.3; 422/121, 422/122, 422/24, 422/4, 422/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC	Draw Desc	Image
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☐ 6. Document ID: US 6506605 B1

L6: Entry 6 of 30

File: USPT

Jan 14, 2003

US-PAT-NO: 6506605

DOCUMENT-IDENTIFIER: US 6506605 B1

TITLE: System for sensing catalyst coating loss and efficiency

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Fred Mitchell	Princeton Junction	NJ		
Yang; Xiaolin David	Edison	NJ		
Heck; Ronald Marshall	Frenchtown	NJ		
Hoke; Jeffrey B.	North Brunswick	NJ		
Waterman; Earl Marvin	Iselin	NJ		
Liu; Xinsheng	Edison	NJ		
Anderson; Dennis Ray	Plainsboro	NJ		
Robertson; Arthur Bruce	Greenbelt	MD		
Poles; Terence Christopher	Ringoes	NJ		

US-CL-CURRENT: 436/37; 422/119, 436/149, 436/164, 436/172, 436/56, 436/84

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWMC	Draw Desc	Image
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☐ 7. Document ID: US 6315959 B1

L6: Entry 7 of 30

File: USPT

Nov 13, 2001

US-PAT-NO: 6315959

DOCUMENT-IDENTIFIER: US 6315959 B1

TITLE: Salt air freshener apparatus and method

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mandish; Theodore O.	Mims	FL	32754	

US-CL-CURRENT: 422/125; 239/60, 264/239, 264/340, 264/DIG.34, 422/120, 422/123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 6270720 B1

L6: Entry 8 of 30

File: USPT

Aug 7, 2001

US-PAT-NO: 6270720

DOCUMENT-IDENTIFIER: US 6270720 B1

TITLE: Salt air freshener apparatus and method

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mandish; Theodore O.	Mims	FL	32754	

US-CL-CURRENT: 422/4; 239/60, 422/120, 422/123, 422/125, 422/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5993738 A

L6: Entry 9 of 30

File: USPT

Nov 30, 1999

US-PAT-NO: 5993738

DOCUMENT-IDENTIFIER: US 5993738 A

**** See image for Certificate of Correction ****

TITLE: Electrostatic photocatalytic air disinfection

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goswani; D. Yogi	Gainesville	FL		

US-CL-CURRENT: 422/22; 422/121, 422/122, 422/24, 422/4, 96/16, 96/69, 96/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5938823 A

L6: Entry 10 of 30

File: USPT

Aug 17, 1999

US-PAT-NO: 5938823

DOCUMENT-IDENTIFIER: US 5938823 A

TITLE: Integrated electrostatic collection and microwave sterilization for

bioaerosol air purification

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Condit; David A.	Avon	CT		
Obee; Timothy N.	South Windsor	CT		
Sutton; Willard H.	Glastonbury	CT		
Grzybowski; Richard R.	Plantsville	CT		
Pater; Christopher M.	Colchester	CT		
Rinaldi; Antonio	Wethersfield	CT		
Satyapal; Sunita	East Hampton	CT		
Schmidt; Wayde R.	Pomfret Center	CT		
Winston; Charles R.	Glastonbury	CT		
Winter; Michael	New Haven	CT		

US-CL-CURRENT: 96/16; 422/121, 96/224, 96/225, 96/25, 96/69, 96/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5879435 A

L6: Entry 11 of 30

File: USPT

Mar 9, 1999

US-PAT-NO: 5879435

DOCUMENT-IDENTIFIER: US 5879435 A

TITLE: Electronic air cleaner with germicidal lamp

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satyapal; Sunita	East Hampton	CT		
Michels; H. Harvey	West Hartford	CT		
Faris; William A.	Syracuse	NY		

US-CL-CURRENT: 96/16; 422/24, 95/74, 96/224, 96/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 12. Document ID: US 5730073 A

L6: Entry 12 of 30

File: USPT

Mar 24, 1998

US-PAT-NO: 5730073

DOCUMENT-IDENTIFIER: US 5730073 A

TITLE: Waste flon disposal method

DATE-ISSUED: March 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kobata; Takeji	Sapporo			JP

US-CL-CURRENT: 110/346; 110/229, 110/235, 110/255, 422/168, 422/169

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 13. Document ID: US 5468454 A

L6: Entry 13 of 30

File: USPT

Nov 21, 1995

US-PAT-NO: 5468454

DOCUMENT-IDENTIFIER: US 5468454 A

TITLE: Compact sterilizing deodorizing and freshness-preserving apparatus for use in a refrigerator

DATE-ISSUED: November 21, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Chun T.	Suwon			KR

US-CL-CURRENT: 422/121; 422/120, 422/122, 422/186.04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 14. Document ID: US 5433772 A

L6: Entry 14 of 30

File: USPT

Jul 18, 1995

US-PAT-NO: 5433772

DOCUMENT-IDENTIFIER: US 5433772 A

TITLE: Electrostatic air filter for mobile equipment

DATE-ISSUED: July 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sikora; David	Dallas	TX	75248	

US-CL-CURRENT: 96/87; 422/120, 55/357, 55/385.3, 96/88, 96/89, 96/96

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 15. Document ID: US 5250258 A

L6: Entry 15 of 30

File: USPT

Oct 5, 1993

US-PAT-NO: 5250258

DOCUMENT-IDENTIFIER: US 5250258 A

TITLE: Method for purifying and activating air and apparatus therefor

DATE-ISSUED: October 5, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oh; Byeung-ok	Jongro-Gu, Seoul			KR

US-CL-CURRENT: 422/22; 250/428, 250/432R, 250/504R, 356/436, 356/437, 356/438,
422/120, 422/121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 16. Document ID: US 4917862 A

L6: Entry 16 of 30

File: USPT

Apr 17, 1990

US-PAT-NO: 4917862

DOCUMENT-IDENTIFIER: US 4917862 A

TITLE: Filter and method for removing mercury, bacteria, pathogens and other vapors from gas

DATE-ISSUED: April 17, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraw; Allan	Albuquerque	NM	87114	
Kraw; Carol A.	Albuquerque	NM	87114	

US-CL-CURRENT: 422/4; 422/122, 423/210, 423/239.1, 454/245, 55/501, 95/134, 96/134,
96/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 17. Document ID: US 4770674 A

L6: Entry 17 of 30

File: USPT

Sep 13, 1988

US-PAT-NO: 4770674

DOCUMENT-IDENTIFIER: US 4770674 A

**** See image for Certificate of Correction ******** See image for Reexamination Certificate ****

TITLE: Gas conditioning for an electrostatic precipitator

DATE-ISSUED: September 13, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tellini; Marco G.	Montclair	NJ		
Pfoutz; Billy D.	Somerville	NJ		

US-CL-CURRENT: 95/4; 422/110, 422/111, 422/160, 422/161, 423/533, 95/58, 96/19,
96/52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 18. Document ID: US 4655933 A

L6: Entry 18 of 30

File: USPT

Apr 7, 1987

US-PAT-NO: 4655933

DOCUMENT-IDENTIFIER: US 4655933 A

TITLE: System of ionized oxygen allotrope gas water purification and method and apparatus therefor

DATE-ISSUED: April 7, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Dennis E. J.	Aurora	IL	60506	
Johnson; Scott J.	Aurora	IL	60506	

US-CL-CURRENT: 210/721; 204/157.15, 210/758, 210/760, 422/186.01, 422/186.07, 422/186.08, 422/186.3, 422/907

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 19. Document ID: US 4630530 A

L6: Entry 19 of 30

File: USPT

Dec 23, 1986

US-PAT-NO: 4630530

DOCUMENT-IDENTIFIER: US 4630530 A

TITLE: Filtering systems for buses

DATE-ISSUED: December 23, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eckstrom; William R.	Dolton	IL		
Conrad; John R.	Westlake Village	CA		

US-CL-CURRENT: 454/100; 4/209FF, 422/186.1, 454/158, 55/385.3, 55/481, 62/244, 96/138, 96/224, 96/57

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 20. Document ID: US 4563286 A

L6: Entry 20 of 30

File: USPT

Jan 7, 1986

US-PAT-NO: 4563286

DOCUMENT-IDENTIFIER: US 4563286 A

TITLE: System of ionized oxygen allotrope gas water purification and method and apparatus therefor

DATE-ISSUED: January 7, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Dennis E. J.	Aurora	IL	60506	
Johnson; Scott J.	Aurora	IL	60506	

US-CL-CURRENT: 210/721; 204/157.15, 210/758, 210/760, 422/186.01, 422/186.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 21. Document ID: US 4253852 A

L6: Entry 21 of 30

File: USPT

Mar 3, 1981

US-PAT-NO: 4253852

DOCUMENT-IDENTIFIER: US 4253852 A

TITLE: Air purifier and ionizer

DATE-ISSUED: March 3, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Paul C.	Berkeley	CA		

US-CL-CURRENT: 96/58; 361/230, 422/121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 22. Document ID: US 4245550 A

L6: Entry 22 of 30

File: USPT

Jan 20, 1981

US-PAT-NO: 4245550

DOCUMENT-IDENTIFIER: US 4245550 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: January 20, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Yokosuka			JP
Sone; Masazumi	Yokohama			JP
Fukumori; Yukitsugu	Yokohama			JP
Hayashi; Kazuo	Yokohama			JP

US-CL-CURRENT: 454/156; 422/121, 454/140, 454/158, 55/385.3, 96/136, 96/224, 96/58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 23. Document ID: US 4227446 A

L6: Entry 23 of 30

File: USPT

Oct 14, 1980

US-PAT-NO: 4227446

DOCUMENT-IDENTIFIER: US 4227446 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: October 14, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sone; Masazumi	Yokohama			JP
Suzuki; Kazuhiko	Yokosuka			JP
Fukumori; Yukitsugu	Yokohama			JP

US-CL-CURRENT: 454/158; 422/121, 454/140, 454/156, 55/385.3, 96/136, 96/224, 96/58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 24. Document ID: US 4223598 A

L6: Entry 24 of 30

File: USPT

Sep 23, 1980

US-PAT-NO: 4223598

DOCUMENT-IDENTIFIER: US 4223598 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: September 23, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Yokosuka			JP
Sone; Masazumi	Yokohama			JP

US-CL-CURRENT: 454/156; 422/121, 454/140, 454/158, 55/385.3, 96/136, 96/58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 25. Document ID: US 4133652 A

L6: Entry 25 of 30

File: USPT

Jan 9, 1979

US-PAT-NO: 4133652

DOCUMENT-IDENTIFIER: US 4133652 A

TITLE: Electronic air conditioner

DATE-ISSUED: January 9, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishikawa; Makio	Nakano-Ku, Tokyo-To			JP
Kanazawa; Hikaru	Suginami-Ku, Tokyo-To			JP

US-CL-CURRENT: 96/58; 422/4, 55/414

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 26. Document ID: US 3973927 A

L6: Entry 26 of 30

File: USPT

Aug 10, 1976

US-PAT-NO: 3973927

DOCUMENT-IDENTIFIER: US 3973927 A

TITLE: Process and installation for creating optimum climatic conditions in a room by air purification and ionization control

DATE-ISSUED: August 10, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Furchner; Helmut	D-7032 Sindelfingen 63			DT
Stroiazso; Bernard	F-54520 Laxou 24			FR

US-CL-CURRENT: 95/3; 422/22, 95/73, 96/19, 96/223

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 27. Document ID: US 3936283 A

L6: Entry 27 of 30

File: USPT

Feb 3, 1976

US-PAT-NO: 3936283

DOCUMENT-IDENTIFIER: US 3936283 A

TITLE: Compact gas purifier

DATE-ISSUED: February 3, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Solis; Frank	North Hollywood	CA	91604	

US-CL-CURRENT: 96/222; 261/91, 422/4, 55/DIG.34, 96/227, 96/282, 96/324, 96/418

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 28. Document ID: US 3844741 A

L6: Entry 28 of 30

File: USPT

Oct 29, 1974

US-PAT-NO: 3844741

DOCUMENT-IDENTIFIER: US 3844741 A

TITLE: AIR PURIFIER

DATE-ISSUED: October 29, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dimitrik, Paul	Richardson	TX	75080	

US-CL-CURRENT: 96/16, 250/431, 250/504R, 422/121, 422/186, 422/186.3, 55/467,
96/139, 96/224, 96/58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw. Desc	Image
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☐ 29. Document ID: US 3744216 A

L6: Entry 29 of 30

File: USPT

Jul 10, 1973

US-PAT-NO: 3744216

DOCUMENT-IDENTIFIER: US 3744216 A

TITLE: AIR PURIFIER

DATE-ISSUED: July 10, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halloran, John J.	Roslyn	PA		

US-CL-CURRENT: 96/16, 422/121, 422/124, 422/24, 422/4, 422/5, 55/315, 55/521,
55/524, 55/528, 96/27, 96/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw. Desc	Image
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☐ 30. Document ID: US 3702526 A

L6: Entry 30 of 30

File: USPT

Nov 14, 1972

US-PAT-NO: 3702526

DOCUMENT-IDENTIFIER: US 3702526 A

TITLE: AIR IONIZATION AND CLEANING ARRANGEMENT

DATE-ISSUED: November 14, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eichmeier, Joseph	Munich			DT

US-CL-CURRENT: 96/16, 128/205.27, 250/432R, 315/111.01, 361/231, 422/121, 55/385.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw. Desc	Image
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Generate Collection

Print

Terms

L5 and ((422/\$)!.CCLS.)

Documents

30

WEST Search History

DATE: Wednesday, October 08, 2003

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L1	air near5 (conditioner or conditioning or purifier or purifying)	179377	L1
L2	L1 same (ionizer or ion near5 (generator or generating) or precipitator)	575	L2
L3	taylor-charles\$.in. or lau-shek\$.in.	286	L3
L4	l2 not L3	552	L4
L5	L4 and (light or lamp or UV or ultraviolet)	121	L5
L6	L5 and ((422/\$)!.CCLS.)	30	L6
L7	electrode near3 (emitting or emitter or emit)	34649	L7
L8	electrode near3 (collecting or collect or collector or collected)	37788	L8
L9	l5 and l7 and l8	3	L9
L10	l5 and electrode	53	L10

END OF SEARCH HISTORY

WEST

Generate Collection

Print

Search Results - Record(s) 1 through 50 of 53 returned.

☐ 1. Document ID: US 20030098650 A1

L10: Entry 1 of 53

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030098650
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030098650 A1

TITLE: Ion generating apparatus

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Adachi, Yoshiichi	Nagoya-shi Aichi		JP	
Kato, Yuji	Nagoya-shi Aichi		JP	

US-CL-CURRENT: 313/587

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 2. Document ID: US 20030072675 A1

L10: Entry 2 of 53

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030072675
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030072675 A1

TITLE: Sterilization method, ion generating device, ion generating device, and air conditioning device

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Takeda, Yasukata	Osaka-shi		JP	
Sekoguchi, Yoshinori	Osaka-shi		JP	
Furukawa, Takeshi	Osaka-shi		JP	
Morikawa, Mamoru	Osaka-shi		JP	
Noguchi, Katsutoshi	Osaka-shi		JP	
Nojima, Hideo	Osaka-shi		JP	
Nishikawa, Kazuo	Osaka-Shi		JP	
Miyata, Akio	Osaka-Shi		JP	

US-CL-CURRENT: 422/22; 422/186.04, 422/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 3. Document ID: US 20030019355 A1

L10: Entry 3 of 53

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030019355
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030019355 A1

TITLE: Device and method for selectively removing gaseous pollutants from the ambient air

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Goebel, Johann	Muenchen		DE	
Oberpriller, Helmut	Kleinhohenrain		DE	
Peuser, Peter	Riemerling		DE	

US-CL-CURRENT: 95/57; 422/121, 96/16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 4. Document ID: US 20020159215 A1

L10: Entry 4 of 53

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020159215
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020159215 A1

TITLE: Protecting transmissive surfaces

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Siess, Harold Edward	Gaithersburg	MD	US	

US-CL-CURRENT: 361/232; 96/97

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 5. Document ID: US 20020098130 A1

L10: Entry 5 of 53

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098130
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020098130 A1

TITLE: Apparatus for purifying and deodorizing air

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hai Fong, William Wing	Kin		HK	

US-CL-CURRENT: 422/186.04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 6. Document ID: US 20020005116 A1

L10: Entry 6 of 53

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020005116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020005116 A1

TITLE: Electrofiltration apparatus

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hagglund, Joel K.	Oakdale	MN	US	
Insley, Thomas I.	Lake Elmo	MN	US	
Johnson, Todd W.	Minneapolis	MN	US	

US-CL-CURRENT: 95/79; 96/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 7. Document ID: US 20010025570 A1

L10: Entry 7 of 53

File: PGPB

Oct 4, 2001

PGPUB-DOCUMENT-NUMBER: 20010025570

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010025570 A1

TITLE: Air cleaner, air cleaning method, and air cleaner with sterilization

PUBLICATION-DATE: October 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fukushima, Fumio	Tokyo		JP	

US-CL-CURRENT: 95/57; 96/55

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 8. Document ID: US 20010017691 A1

L10: Entry 8 of 53

File: PGPB

Aug 30, 2001

PGPUB-DOCUMENT-NUMBER: 20010017691
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010017691 A1

TITLE: Exposure apparatus

PUBLICATION-DATE: August 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nikaido, Masaru	Yokosuka-shi		JP	
Ishino, Tomoaki	Kamagaya-shi		JP	
Tadokoro, Tetsuya	Ichikawa-shi		JP	

US-CL-CURRENT: 355/53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 9. Document ID: US 6494934 B2

L10: Entry 9 of 53

File: USPT

Dec 17, 2002

US-PAT-NO: 6494934
DOCUMENT-IDENTIFIER: US 6494934 B2

TITLE: Air cleaner, air cleaning method, and air cleaner with sterilization

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fukushima, Fumio	Tokyo			JP

US-CL-CURRENT: 95/63; 95/73, 95/77, 96/225, 96/55, 96/94, 96/96

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 10. Document ID: US 6471746 B2

L10: Entry 10 of 53

File: USPT

Oct 29, 2002

US-PAT-NO: 6471746
DOCUMENT-IDENTIFIER: US 6471746 B2

TITLE: Electrofiltration process

DATE-ISSUED: October 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hagglund, Joel K.	Oakdale	MN		
Insley, Thomas I.	Lake Elmo	MN		
Johnson, Todd W.	Minneapolis	MN		

US-CL-CURRENT: 95/78; 55/521, 55/DIG.39, 95/79

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 11. Document ID: US 6454839 B1

L10: Entry 11 of 53

File: USPT

Sep 24, 2002

US-PAT-NO: 6454839

DOCUMENT-IDENTIFIER: US 6454839 B1

**** See image for Certificate of Correction ****

TITLE: Electrofiltration apparatus

DATE-ISSUED: September 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hagglund; Joel K.	Oakdale	MN		
Insley; Thomas I.	Lake Elmo	MN		
Johnson; Todd W.	Minneapolis	MN		

US-CL-CURRENT: 96/67; 55/521, 95/78, 95/79, 96/100, 96/69, 96/77

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 12. Document ID: US 6396563 B2

L10: Entry 12 of 53

File: USPT

May 28, 2002

US-PAT-NO: 6396563

DOCUMENT-IDENTIFIER: US 6396563 B2

TITLE: Exposure apparatus

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nikaido; Masaru	Yokosuka			JP
Ishino; Tomoaki	Kamagaya			JP
Tadokoro; Tetsuya	Ichikawa			JP

US-CL-CURRENT: 355/30; 355/24, 355/53, 355/70, 355/72, 399/364, 430/311, 430/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 13. Document ID: US 6379427 B1

L10: Entry 13 of 53

File: USPT

Apr 30, 2002

US-PAT-NO: 6379427

DOCUMENT-IDENTIFIER: US 6379427 B1

TITLE: Method for protecting exposed surfaces

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Siess; Harold E.	Gaithersburg	MD	20879	

US-CL-CURRENT: 95/57; 361/226, 55/385.2, 95/58, 95/78, 96/16, 96/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 14. Document ID: US 6132902 A

L10: Entry 14 of 53

File: USPT

Oct 17, 2000

US-PAT-NO: 6132902

DOCUMENT-IDENTIFIER: US 6132902 A

TITLE: Electric automobile and electric power drive therefor

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyasaka; Tsutomu	Kanagawa			JP

US-CL-CURRENT: 429/224; 180/65.3, 429/120, 429/304

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 15. Document ID: US 5993738 A

L10: Entry 15 of 53

File: USPT

Nov 30, 1999

US-PAT-NO: 5993738

DOCUMENT-IDENTIFIER: US 5993738 A

**** See image for Certificate of Correction ****

TITLE: Electrostatic photocatalytic air disinfection

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goswani; D. Yogi	Gainesville	FL		

US-CL-CURRENT: 422/22; 422/121, 422/122, 422/24, 422/4, 96/16, 96/69, 96/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 16. Document ID: US 5847514 A

L10: Entry 16 of 53

File: USPT

Dec 8, 1998

US-PAT-NO: 5847514

DOCUMENT-IDENTIFIER: US 5847514 A

TITLE: Apparatus for generating negative ions with a lid and a casing

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dai; Robert	Taichung Hsien			TW

US-CL-CURRENT: 315/111.91; 315/58, 315/70, 361/213, 361/225, 361/230, 361/231,
416/5, 55/385.2, 55/DIG.5, 96/68

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 17. Document ID: US 5845504 A

L10: Entry 17 of 53

File: USPT

Dec 8, 1998

US-PAT-NO: 5845504

DOCUMENT-IDENTIFIER: US 5845504 A

**** See image for Certificate of Correction ****

TITLE: Portable/potable water recovery and dispensing apparatus

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LeBleu; Terry L.	San Antonio	TX		

US-CL-CURRENT: 62/92; 62/285

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 18. Document ID: US 5741352 A

L10: Entry 18 of 53

File: USPT

Apr 21, 1998

US-PAT-NO: 5741352

DOCUMENT-IDENTIFIER: US 5741352 A

TITLE: Air cleaner

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ford; Joseph E.	Cary	IL		
Jursich; Donald N.	Chicago	IL		
Chan; Raymond	Vancouver			CA

US-CL-CURRENT: 96/68; 95/78, 96/69, 96/97, 96/99

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 19. Document ID: US 5669221 A

L10: Entry 19 of 53

File: USPT

Sep 23, 1997

US-PAT-NO: 5669221

DOCUMENT-IDENTIFIER: US 5669221 A

**** See image for Certificate of Correction ****

TITLE: Portable, potable water recovery and dispensing apparatus

DATE-ISSUED: September 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LeBleu; Terry L.	San Antonio	TX		
Forsberg; Francis C.	Boerne	TX		

US-CL-CURRENT: 62/92; 62/150, 62/272, 62/285

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 20. Document ID: US 5533527 A

L10: Entry 20 of 53

File: USPT

Jul 9, 1996

US-PAT-NO: 5533527

DOCUMENT-IDENTIFIER: US 5533527 A

TITLE: Treatment method for depressive and neurovegetative disorders

DATE-ISSUED: July 9, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Terman; Michael	New York	NY		

US-CL-CURRENT: 128/898

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 21. Document ID: US 5468454 A

L10: Entry 21 of 53

File: USPT

Nov 21, 1995

US-PAT-NO: 5468454

DOCUMENT-IDENTIFIER: US 5468454 A

TITLE: Compact sterilizing deodorizing and freshness-preserving apparatus for use in a refrigerator

DATE-ISSUED: November 21, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Chun T.	Suwon			KR

US-CL-CURRENT: 422/121; 422/120, 422/122, 422/186.04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 22. Document ID: US 5456741 A

L10: Entry 22 of 53

File: USPT

Oct 10, 1995

US-PAT-NO: 5456741

DOCUMENT-IDENTIFIER: US 5456741 A

TITLE: Air purifier

DATE-ISSUED: October 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahara; Toshihiro	Chiryu			JP
Katou; Kenichi	Nagoya			JP
Takeichi; Masakazu	Okazaki			JP

US-CL-CURRENT: 96/22; 95/6, 96/57, 96/59, 96/67, 96/96, 96/97

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 23. Document ID: US 5296018 A

L10: Entry 23 of 53

File: USPT

Mar 22, 1994

US-PAT-NO: 5296018

DOCUMENT-IDENTIFIER: US 5296018 A

TITLE: Method and apparatus for eliminating electric charges in a clean room

DATE-ISSUED: March 22, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Masanori	Tokyo			JP

US-CL-CURRENT: 95/65; 55/385.2, 95/69, 95/70, 96/52, 96/57, 96/74

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 24. Document ID: US 5207877 A

L10: Entry 24 of 53

File: USPT

May 4, 1993

US-PAT-NO: 5207877

DOCUMENT-IDENTIFIER: US 5207877 A

TITLE: Methods for purification of air

DATE-ISSUED: May 4, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Norman L.	Amherst	NY		
Genders; John D.	Lancaster	NY		
Minklei; Alfred O.	Grand Island	NY		

US-CL-CURRENT: 423/210; 205/696, 205/701, 205/746, 205/770, 95/154, 95/187

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 25. Document ID: US 5010777 A

L10: Entry 25 of 53

File: USPT

Apr 30, 1991

US-PAT-NO: 5010777

DOCUMENT-IDENTIFIER: US 5010777 A

TITLE: Apparatus and method for establishing selected environmental characteristics

DATE-ISSUED: April 30, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yehl; James E.	Boulder	CO		
Coppom; Rex R.	Boulder	CO		

US-CL-CURRENT: 73/864.81; 361/231, 454/187, 55/385.2, 95/75, 96/44, 96/57, 96/66

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 26. Document ID: US 4812711 A

L10: Entry 26 of 53

File: USPT

Mar 14, 1989

US-PAT-NO: 4812711

DOCUMENT-IDENTIFIER: US 4812711 A

TITLE: Corona discharge air transporting arrangement

DATE-ISSUED: March 14, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Torok; Vilmos	Lidingo			SE
Loreth; Andrzej	Akersberga			SE

US-CL-CURRENT: 315/111.91; 261/DIG.42, 313/231.41, 417/48, 430/937

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 27. Document ID: US 4776515 A

L10: Entry 27 of 53

File: USPT

Oct 11, 1988

US-PAT-NO: 4776515

DOCUMENT-IDENTIFIER: US 4776515 A

TITLE: Electrodynamic aerosol generator

DATE-ISSUED: October 11, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Michalchik; Michael	Newport Beach	CA		

US-CL-CURRENT: 239/3; 239/706, 417/51

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 28. Document ID: US 4702815 A

L10: Entry 28 of 53

File: USPT

Oct 27, 1987

US-PAT-NO: 4702815

DOCUMENT-IDENTIFIER: US 4702815 A

TITLE: Distributed charge composition electrodes and desalting system

DATE-ISSUED: October 27, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prestridge; Floyd L.	Sapula	OK		
Johnson; Bruce C.	Broken Arrow	OK		

US-CL-CURRENT: 204/673

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 29. Document ID: US 4655933 A

L10: Entry 29 of 53

File: USPT

Apr 7, 1987

US-PAT-NO: 4655933

DOCUMENT-IDENTIFIER: US 4655933 A

TITLE: System of ionized oxygen allotrope gas water purification and method and apparatus therefor

DATE-ISSUED: April 7, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Dennis E. J.	Aurora	IL	60506	
Johnson; Scott J.	Aurora	IL	60506	

US-CL-CURRENT: 210/721; 204/157.15, 210/758, 210/760, 422/186.01, 422/186.07,
422/186.08, 422/186.3, 422/907

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 30. Document ID: US 4597781 A

L10: Entry 30 of 53

File: USPT

Jul 1, 1986

US-PAT-NO: 4597781

DOCUMENT-IDENTIFIER: US 4597781 A

TITLE: Compact air purifier unit

DATE-ISSUED: July 1, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spector; Donald	Union City	NJ	07087	

US-CL-CURRENT: 96/52; 55/467, 55/485, 55/487, 55/503, 55/505, 96/222, 96/57, D23/365

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 31. Document ID: US 4563286 A

L10: Entry 31 of 53

File: USPT

Jan 7, 1986

US-PAT-NO: 4563286

DOCUMENT-IDENTIFIER: US 4563286 A

TITLE: System of ionized oxygen allotrope gas water purification and method and apparatus therefor

DATE-ISSUED: January 7, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Dennis E. J.	Aurora	IL	60506	
Johnson; Scott J.	Aurora	IL	60506	

US-CL-CURRENT: 210/721; 204/157.15, 210/758, 210/760, 422/186.01, 422/186.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 32. Document ID: US 4521228 A

L10: Entry 32 of 53

File: USPT

Jun 4, 1985

US-PAT-NO: 4521228

DOCUMENT-IDENTIFIER: US 4521228 A

TITLE: Control device for an electrostatic precipitator

DATE-ISSUED: June 4, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Daar; Horst	Erlangen			DE
Alig; Franz	Johannesberg			DE

US-CL-CURRENT: 96/19; 323/903

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 33. Document ID: US 4274843 A

L10: Entry 33 of 53

File: USPT

Jun 23, 1981

US-PAT-NO: 4274843

DOCUMENT-IDENTIFIER: US 4274843 A

TITLE: Electrostatic type car air purifier

DATE-ISSUED: June 23, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sone; Masazumi	Yokohama			JP
Suzuki; Kazuhiko	Yokosuka			JP
Fukumori; Yukitsugu	Yokohama			JP

US-CL-CURRENT: 96/82; 454/158

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 34. Document ID: US 4253852 A

L10: Entry 34 of 53

File: USPT

Mar 3, 1981

US-PAT-NO: 4253852

DOCUMENT-IDENTIFIER: US 4253852 A

TITLE: Air purifier and ionizer

DATE-ISSUED: March 3, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Paul C.	Berkeley	CA		

US-CL-CURRENT: 96/58; 361/230, 422/121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 35. Document ID: US 4245550 A

L10: Entry 35 of 53

File: USPT

Jan 20, 1981

US-PAT-NO: 4245550

DOCUMENT-IDENTIFIER: US 4245550 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: January 20, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Yokosuka			JP
Sone; Masazumi	Yokohama			JP
Fukumori; Yukitsugu	Yokohama			JP
Hayashi; Kazuo	Yokohama			JP

US-CL-CURRENT: 454/156; 422/121, 454/140, 454/158, 55/385.3, 96/136, 96/224, 96/58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 36. Document ID: US 4227894 A

L10: Entry 36 of 53

File: USPT

Oct 14, 1980

US-PAT-NO: 4227894

DOCUMENT-IDENTIFIER: US 4227894 A

TITLE: Ion generator or electrostatic environmental conditioner

DATE-ISSUED: October 14, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Proynoff; John D.	Phoenix	AZ	85016	

US-CL-CURRENT: 96/58; 361/231

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 37. Document ID: US 4227446 A

L10: Entry 37 of 53

File: USPT

Oct 14, 1980

US-PAT-NO: 4227446

DOCUMENT-IDENTIFIER: US 4227446 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: October 14, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sone; Masazumi	Yokohama			JP
Suzuki; Kazuhiko	Yokosuka			JP
Fukumori; Yukitsugu	Yokohama			JP

US-CL-CURRENT: [454/158](#); [422/121](#), [454/140](#), [454/156](#), [55/385.3](#), [96/136](#), [96/224](#), [96/58](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 38. Document ID: US 4223598 A

L10: Entry 38 of 53

File: USPT

Sep 23, 1980

US-PAT-NO: 4223598

DOCUMENT-IDENTIFIER: US 4223598 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: September 23, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Yokosuka			JP
Sone; Masazumi	Yokohama			JP

US-CL-CURRENT: [454/156](#); [422/121](#), [454/140](#), [454/158](#), [55/385.3](#), [96/136](#), [96/58](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 39. Document ID: US 4133652 A

L10: Entry 39 of 53

File: USPT

Jan 9, 1979

US-PAT-NO: 4133652

DOCUMENT-IDENTIFIER: US 4133652 A

TITLE: Electronic air conditioner

DATE-ISSUED: January 9, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishikawa; Makio	Nakano-Ku, Tokyo-To			JP
Kanazawa; Hikaru	Suginami-Ku, Tokyo-To			JP

US-CL-CURRENT: [96/58](#); [422/4](#), [55/414](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 40. Document ID: US 3973927 A

L10: Entry 40 of 53

File: USPT

Aug 10, 1976

US-PAT-NO: 3973927

DOCUMENT-IDENTIFIER: US 3973927 A

TITLE: Process and installation for creating optimum climatic conditions in a room by air purification and ionization control

DATE-ISSUED: August 10, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Furchner; Helmut	D-7032 Sindelfingen 63			DT
Stroiazso; Bernard	F-54520 Laxou 24			FR

US-CL-CURRENT: 95/3; 422/22, 95/73, 96/19, 96/223

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 41. Document ID: US 3908366 A

L10: Entry 41 of 53

File: USPT

Sep 30, 1975

US-PAT-NO: 3908366

DOCUMENT-IDENTIFIER: US 3908366 A

TITLE: Misfiring detector for internal combustion engines

DATE-ISSUED: September 30, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Masaki; Kenji	Yokohama			JA

US-CL-CURRENT: 60/277; 340/579, 60/288, 60/289, 73/117.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 42. Document ID: US 3744216 A

L10: Entry 42 of 53

File: USPT

Jul 10, 1973

US-PAT-NO: 3744216

DOCUMENT-IDENTIFIER: US 3744216 A

TITLE: AIR PURIFIER

DATE-ISSUED: July 10, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halloran; John J.	Roslyn	PA		

US-CL-CURRENT: 96/16; 422/121, 422/124, 422/24, 422/4, 422/5, 55/315, 55/521, 55/524, 55/528, 96/27, 96/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMIC	Draw Desc	Image
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☐ 43. Document ID: US 3702526 A

L10: Entry 43 of 53

File: USPT

Nov 14, 1972

US-PAT-NO: 3702526

DOCUMENT-IDENTIFIER: US 3702526 A

TITLE: AIR IONIZATION AND CLEANING ARRANGEMENT

DATE-ISSUED: November 14, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eichmeier; Joseph	Munich			DT

US-CL-CURRENT: 96/16; 128/205.27, 250/432R, 315/111.01, 361/231, 422/121, 55/385.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 44. Document ID: JP 2003144972 A

L10: Entry 44 of 53

File: JPAB

May 20, 2003

PUB-NO: JP02003144972A

DOCUMENT-IDENTIFIER: JP 2003144972 A

TITLE: ELECTRIC DUST COLLECTING APPARATUS AND AIR CONDITIONER

PUBN-DATE: May 20, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
IDE, SHINICHI	
SUNAKAWA, MINORU	

INT-CL (IPC): B03 C 3/41; A61 L 9/00; B01 J 35/02; B03 C 3/02; B03 C 3/12; B03 C 3/38; B03 C 3/40; B03 C 3/47; B03 C 3/60; B03 C 3/68; B03 C 3/74; F24 F 1/00; F24 F 11/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 45. Document ID: JP 2002115861 A

L10: Entry 45 of 53

File: JPAB

Apr 19, 2002

PUB-NO: JP02002115861A

DOCUMENT-IDENTIFIER: JP 2002115861 A

TITLE: AIR CONDITIONER

PUBN-DATE: April 19, 2002

INVENTOR-INFORMATION:

NAME	COUNTRY
NOJIMA, HIDEO	
NISHIKAWA, KAZUO	
NOGUCHI, KATSUTOSHI	

INT-CL (IPC): F24 F 1/00; A61 L 9/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 46. Document ID: JP 09253528 A

L10: Entry 46 of 53

File: JPAB

Sep 30, 1997

PUB-NO: JP409253528A

DOCUMENT-IDENTIFIER: JP 09253528 A

TITLE: AIR PURIFIER

PUBN-DATE: September 30, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

HARA, SHINICHI

INT-CL (IPC): B03 C 3/74

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Clip Img	Image
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☐ 47. Document ID: JP 55024572 A

L10: Entry 47 of 53

File: JPAB

Feb 21, 1980

PUB-NO: JP355024572A

DOCUMENT-IDENTIFIER: JP 55024572 A

TITLE: ELECTRICAL DUST PRECIPITATOR

PUBN-DATE: February 21, 1980

INVENTOR-INFORMATION:

NAME

COUNTRY

SASAKA, RYOSUKE

KATO, KIMINORI

ISHINO, YASUO

MAEKAWA, KAORU

INT-CL (IPC): B03C 3/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Clip Img	Image
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☐ 48. Document ID: JP 2003144972 A

L10: Entry 48 of 53

File: DWPI

May 20, 2003

DERWENT-ACC-NO: 2003-499120

DERWENT-WEEK: 200347

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TITLE: Electrostatic precipitator for air conditioner, includes photocatalyst which is supported by alumite processing layer on counter electrode and is activated using UV rays, during discharge in ionizer unit

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Clip Img	Image
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☐ 49. Document ID: WO 200025909 A1 AU 200016079 A US 6176977 B1 US
20010004046 A1 EP 1135205 A1 CN 1331614 A JP 2002528260 W

L10: Entry 49 of 53

File: DWPI

May 11, 2000

DERWENT-ACC-NO: 2000-365445

DERWENT-WEEK: 200320

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TITLE: Electro-kinetic air transporter-conditioner has an electrode assembly that comprises an array of electrically conductive rod-like and hollow electrodes coupled between output ports

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Clip Img	Image
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☐ 50. Document ID: US 5993738 A

L10: Entry 50 of 53

File: DWPI

Nov 30, 1999

DERWENT-ACC-NO: 2000-095734

DERWENT-WEEK: 200008

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TITLE: Disinfecting airstream containing microorganisms useful in building systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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